



SPRING CAMPUS SERIES (CPP) & So CAL REGIONAL MEETING

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TUESDAY, MARCH 25 | 6:00-8:00 PM

CAL POLY POMONA - BRONCO STUDENT CENTER

3801 W TEMPLE AVE, POMONA, CA 91768

***FOUNDATION RESILIENCE AGAINST SURFACE FAULT
RUPTURES: IMPACTS AND MITIGATION STRATEGIES***

6:00 PM FOOD, SOCIAL, POSTER PRESENTATIONS BY FIRMS

7:00 PM PRESENTATION BY ALI SHAFIEE, PHD, PE, GE



ALI SHAFIEE, PHD, PE, GE
Associate Professor, Civil Engineering
Department, College of Engineering

The impact of surface fault ruptures on buildings and their foundations is analyzed, with a focus on the challenges they present and the techniques available for their mitigation. Case histories are reviewed to examine the mechanisms by which surface fault ruptures affect foundation integrity, highlighting key failure patterns and the factors that influence structural performance during seismic events. Mitigation strategies, including engineering solutions, design modifications, and innovative construction practices, are presented and evaluated for their effectiveness in reducing damage and enhancing resilience. Special attention is given to emerging technologies, such as ground improvement techniques, which show promise in improving structural safety. Additionally, regulatory frameworks and building codes imposed by different jurisdictions to address fault rupture hazards are reviewed, and their implications for practical implementation are discussed.